EDITORIAL BOARD

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G.YASWANTH
II - B.Tech, CSE

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) — DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION OF THE DEPARTMENT

To become a centre of excellence in nurturing the quality Computer Science and Engineering professionals embedded with software knowledge, aptitude for research and ethical values to cater to the needs of industry and society.

MISSION OF THE DEPARTMENT

The Department of Computer Science and Engineering is committed to

M1: Mould the students to become Software Professionals, Researchers and Entrepreneurs by providing advanced laboratories.

M2: Impart high quality professional training to get expertize in modern software tools and technologies to cater to the real time requirements of the industry.

M3: Inculcate team work and lifelong learning among students with a sense of societal and ethical responsibilities.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The graduates of the program are able to:

PEO 1 Apply the knowledge of Mathematics, Science and Engineering fundamentals to identify and solve Computer Science and Engineering problems.

PEO 2 Use various software tools and technologies to solve problems related to academia, industry and society.

PEO 3 Work with ethical and moral values in the multi-disciplinary teams and can communicate effectively among team members with continuous learning.

PEO 4 Pursue higher studies and develop their career in software industry.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Students will be able to:

PSO 1 Apply mathematical and scientific skills in numerous areas of Computer Science and Engineering to design and develop software based systems.

PSO 2 Acquaint module knowledge on emerging trends of modern era in Computer Science and Engineering.

PSO 3 Promote novel applications that meet the needs of entrepreneur, environmental and social issues.

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) — DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM OUTCOMES (POs)

Graduates of the Computer Science and Engineering program are expected to have the following.

PO1: Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an Engineering Specialization to the solution of Complex Engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural Sciences, and Engineering Sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Vision

- To become a centre of excellence in nurturing the quality computer science & engineering professionals embedded with software knowledge, aptitude for research and ethical values to cater to the needs of industry and society.

Mission

The department of computer science and engineering is committed to

- M1: Mould the students to become software Professionals, researchers and entrepreneurs by providing advanced laboratories.

- M2: Impart high quality professional training to get expertize in modern software tools and technologies to cater to the real time requirements of the industry.

- M3: Inculcate team work and lifelong learning among students with a sense of societal and ethical responsibilities.
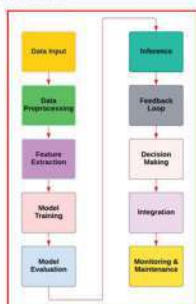
Modern Trends in Technology

Artificial Intelligence

Artificial Intelligence (AI) refers to the simulation of human intelligence processes by computer systems. These processes include learning (the acquisition of information and rules for using the information), reasoning (using rules to reach approximate or definite conclusions), and self-correction. AI encompasses a variety of techniques and approaches, including machine learning, natural language processing, computer vision, robotics, and expert systems, among others. The goal of AI is to create systems that can perform tasks that typically require human intelligence, such as understanding natural language, recognizing patterns, solving problems, and making decisions, albeit often faster and more accurately than humans.

Component	Description
Data Input	Collects and aggregates data from various sources such as sensors or databases.
Data Preprocessing	Cleans, filters, and transforms raw data into a suitable format for analysis.
Feature Extraction	Identifies and extracts relevant features from the preprocessed data.
Model Training	Uses machine learning algorithms to train models on labeled data.
Model Evaluation	Assess the performance and generalization capabilities of the trained model.
Inference	Utilizes the trained model to make predictions or decisions on new data.
Feedback Loop	Incorporates new data or user feedback to update and improve the model over time.
Decision Making	Processes the model's output to make decisions or take actions.
Integration	Facilitates communication between the AI system and external systems or devices.
Monitoring & Maintenance	Continuously monitors and maintains the AI system to ensure reliability.

This table provides a high-level overview of the key components involved in the architecture of artificial intelligence data.

Certainly! Here's a simplified flowchart representing the architecture of artificial intelligence data:

This flowchart provides a visual representation of the sequential flow of data and processes in the architecture of artificial intelligence.

Advantages of Artificial Intelligence

Artificial Intelligence (AI) offers numerous advantages across various fields and industries. Some of the key advantages include:

1. Automation: AI enables the automation of repetitive tasks, allowing humans to focus on more creative and strategic activities. This leads to increased efficiency and productivity.

2. Accuracy: AI systems can perform tasks with a high degree of accuracy and precision, reducing errors and improving outcomes in various domains such as healthcare, finance, and manufacturing.

3. Speed: AI algorithms can process vast amounts of data and perform complex calculations much faster than humans, enabling real-time decision-making and analysis.

4. Scalability: AI systems can scale to handle large volumes of data and tasks without significant increases in cost or effort, making them suitable for handling growing demands and workloads.

5. Personalization : AI enables personalized experiences and recommendations by analyzing individual preferences, behaviours, and historical data, enhancing customer satisfaction and engagement.

6. Decision Support : AI provides valuable insights and predictive analytics that help businesses and organizations make informed decisions and strategize more effectively.

7. Innovation : AI fosters innovation by enabling the development of new products, services, and solutions across various industries, driving technological advancements and economic growth.

8. 24/7 Availability : AI-powered systems can operate continuously without the need for breaks, leading to round-the-clock availability and support in areas such as customer service and monitoring.

9. Risk Reduction : AI can help mitigate risks by identifying patterns, anomalies, and potential threats in data, enabling proactive risk management and mitigation strategies.

10. Accessibility : AI technologies can improve accessibility for individuals with disabilities by providing assistive technologies and adaptive interfaces that cater to diverse needs and preferences.

Overall, the advantages of AI are substantial and contribute to improvements in efficiency, productivity, decision-making, innovation, and customer satisfaction across various domains

Disadvantages of Artificial Intelligence

Intelligence (AI) offers numerous benefits, there are also several disadvantages and challenges associated with its adoption and implementation. Some of the key disadvantages include:

1. High Initial Costs : Developing and implementing AI systems can be expensive, requiring significant investments in infrastructure, technology, and talent. This can pose challenges for smaller organizations or those with limited resources.

2. Complexity and Lack of Transparency : AI algorithms can be highly complex and difficult to interpret, leading to a lack of transparency in decision-making processes. This opacity can raiseconcerns about accountability, fairness, and potential biases in AI-powered systems.

3. Data Privacy and Security Risks : AI relies heavily on data, and the collection, storage, and analysis of large datasets can pose privacy and security risks. Issues such as data breaches, unauthorized access, and misuse of personal information are significant concerns in AI applications.

4. Job Displacement and Economic Disruption : Automation driven by AI technologies has the potential to displace jobs and disrupt entire industries, leading to unemployment, income inequality, and socioeconomic challenges. Workers may require retraining or reskilling to adapt to the changing labor market.

5. Ethical and Legal Implications : AI raises complex ethical and legal questions related to accountability, privacy, discrimination, and autonomy. Issues such as algorithmic bias, unintended consequences, and the ethical use of AI in decision-making contexts require careful consideration and regulation.

6. Overreliance on Technology : Dependence on AI systems can lead to overreliance on technology, reducing human autonomy, critical thinking, and decision-making capabilities. Trusting AI systems blindly without human oversight can lead to unintended consequences or errors.

7. Lack of Generalization and Robustness : AI models trained on specific datasets may struggle to generalize to new or unseen data, leading to performance degradation or inaccuracies in real-world applications. Ensuring the robustness and reliability of AI systems across diverse contexts remains a significant challenge.

8. Environmental Impact : The computational resources required to train and deploy AI models can have a substantial environmental impact, contributing to energy consumption, carbon emissions, and electronic waste generation. Green AI initiatives and energy-efficient algorithms are being developed to address these concerns.

9. Social and Cultural Disruption : AI technologies can exacerbate existing societal challenges, such as privacy concerns, job displacement, and cultural shifts. Addressing these issues requires interdisciplinary collaboration and inclusive decision-making processes.

10. Malicious Use and Cyber security Threats : AI-powered technologies can be exploited for malicious purposes, including misinformation, cyber-attacks, and surveillance. Ensuring the security and integrity of AI systems is essential to mitigate these risks and safeguard against potential threats.

Overall, while AI offers significant potential benefits, addressing the associated disadvantages and challenges requires careful consideration, responsible deployment, and ongoing research and regulation.

Features of Artificial Intelligence

Artificial Intelligence (AI) encompasses a wide range of features and capabilities that enablemachines tomimic human-like intelligence and perform various tasks. Some key features of AI include:

1. Learning : AI systems can learn from data, experiences, and feedback to improve performance over time. This includes techniques such as machine learning, deep learning, and reinforcement learning.

2. Reasoning : AI can apply logic, rules, and algorithms to make decisions, solve problems, and draw conclusions based on available information.

3. Problem Solving : AI systems can analyze complex problems, break them down into smaller components, and develop strategies to find solutions or optimize outcomes.

4. Adaptability : AI exhibits adaptability by adjusting to changing environments, tasks, or requirements, and by learning from new experiences or information.

5. Perception : AI technologies can perceive and interpret sensory inputs such as images, speech, text, and sensor data, enabling capabilities like computer vision, natural language processing, and speech recognition.

6. Prediction : AI can analyze patterns, trends, and relationships in data to make predictions about future events, behaviours, or outcomes.

7. Automation : AI enables the automation of repetitive tasks, processes, and workflows, reducing manual effort and improving efficiency..

8. Creativity:Some AI systems exhibit creativity by generating novel ideas, solutions, or artworks, often through techniques like generative adversarial networks (GANs) and creative AI algorithms.

9. Interaction:AI systems can interact with humans and other machines through various interfaces such as voice commands, chatbots, virtual assistants, and human-robot interaction.

10. Autonomy:AI technologies can operate independently and make decisions without human intervention in certain contexts, such as autonomous vehicles, drones, and smart home devices.

11. Explain ability:Explainable AI (XAI) techniques aim to make AI systems more transparent and understandable, enabling users to interpret and trust the decisions made by AI algorithms.

12. Context Awareness:AI systems can understand and adapt to the context in which they operate, taking into account factors such as user preferences, location, time, and environmental conditions.

These features collectively enable AI to perform a wide range of tasks across various domains, from assisting in healthcare diagnosis and optimizing business operations to powering autonomous vehicles and enhancing entertainment experiences.

FACULTY FOCUS
Publications / Conferences / FDP:

- Dr.SireeshaMoturi has got certificate of participation for participated in 10 Hours National Faculty Development Program on Business Analytics organized by AISSMS College of Engineering, SJC Institute of Technology and Matrusri Engineering College in Collaboration with EXcelREdtechPvt. Ltd. held on 5th Feb to 9th Feb 2024.

- Dr.SireeshaMoturi from Narasaraopeta engineering college has successfully completed Microsoft, SAP & AICTE led Faculty Development Program on Applied Cloud Computing for Full Stack Web Development under TechSaksham from 5th February 2024 to 9th February 2024.

- Certificate of participation awarded to K.VenkataNarasimha Reddy, G.Saranya&M.Suneetha participated in 10 Hours National Faculty Development program on "Deep Learning and Artificial Intelligence" organized by APSSDC in collaboration with ExcelREdtech Pvt.Ltd, Date: 26-02-2024 to 01-03-2024.

- Certificate of participation awarded to Dr.S.V.N.Sreenivasu participated in National Level Faculty Development Program (FDP) & Pre – Incubation Program (PIP) virtual mode organized by Atal Incubation Centre ALEAP WEHUB from 19th to 21st February 2024.

- Certificate Of Participation Dr.M.Sireesha, Mr.V.Karuna Kumar, Mr. M.Venkata Rao &Ms.G.Saranya participated in 10 Hours National Faculty Development Program on "Data Analytics using Power BI and Tableau" organized by Faculty of IT and CS - Parul University - Gujarat, Atria Institute of Technology- Karnataka & Amity Pune – Maharashtra in Collaboration with ExcelREdtechPvt. Ltd. Date: 11th March to 15th March 2024.

- Certificate of Appreciation Dr.M. Sireesha has participated as Technical Program Committee Member of Reviewer in the 2nd International Conference on Power Engineering and Intelligent Systems (PEIS2024) at National Institute of Technology Uttarakhand on 16-17 March 2024.

- Dr.SireeshaMoturi, MarellaVenkata Rao, Karuna Kumar Valicharla, Saranya and RajaniCh has got Certificate Of Participation for participated in One Week Online National Faculty Development Program on "Data Visualization Using Tableau" conducted on 1st to 5th April, 2024 organized by Department of Computer Science and Engineering, Mohan Babu University, Tirupati, Andhra Pradesh & EXCELR EDTECH PVT. LTD.

- M. Sathyam Reddy has got Certificate of Presentation for presented the paper title Pneumonia Detection using Deep Learning in the International Conference on Artificial Intelligence and Its Emerging Areas-2K24 [NEC-ICAIEA-2K24], Organized by Department of Computer Science and Engineering,CSE(AI),IT,CSE(AIML),CSE(DS),CSE(CS) and MCA in Association with CSI on 12th and 13th April 2024 at NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), Narasaraopet, A.P., India.

- YAMANI CHANDANA, Assistant Professor of CSE has got Certificate of Participation for successfully participated and completed A FIVE DAY FACULTY DEVELOPMENT PROGRAM ON PRINCIPLES OF MACHINE LEARNING from 25th TO 30th APRIL, 2024 organized by Departments of Computer Science and Engineering & Allied Branches Narasaraopeta Engineering College, Narasaraopet.

- PANCHUMARTRI GAYATRI, Assistant Professor of CSE has got Certificate of Participation for successfully participated and completed A FIVE DAY FACULTY DEVELOPMENT PROGRAM ON PRINCIPLES OF MACHINE LEARNING from 25th TO 30th APRIL, 2024 organized by Departments of Computer Science and Engineering & Allied Branches Narasaraopeta Engineering College, Narasaraopet.

- YARAGANI NEELIMA, Assistant Professor of CSE has got Certificate of Participation for successfully participated and completed A FIVE DAY FACULTY DEVELOPMENT PROGRAM ON PRINCIPLES OF MACHINE LEARNING from 25th TO 30th APRIL, 2024 organized by Departments of Computer Science and Engineering & Allied Branches Narasaraopeta Engineering College, Narasaraopet.

- TUPAKULA SAI SARANYA, Assistant Professor of CSE has got Certificate of Participation for successfully participated and completed A FIVE DAY FACULTY DEVELOPMENT PROGRAM ON PRINCIPLES OF MACHINE LEARNING from 25th TO 30th APRIL, 2024 organized by Departments of Computer Science and Engineering & Allied Branches Narasaraopeta Engineering College, Narasaraopet.

- Dr.SireeshaMoturi, MarellaVenkatara and G Saranya has got Certificate of Participation for Participated in 10 Hours National Faculty Development Program on GenAI and Prompt Engineering using Microsoft Copilot organized by P B Siddhartha College of Arts & Science, Department of CSE (DS) – Saraswati College of Engineering & CMR College of Engineering & Technology in Collaboration with EXcelREdtech Pvt.Ltd. held on 15th April to 19th April 2024.

- Yamani Chandana has got NPTEL-AICTE Faculty Development Programme Certificate from IIT Madras for successfully completing the course Data Mining during 8 weeks with a consolidated score of 77%.

- M Sathyam Reddy has got Certificate of Course Completion for completing the Cisco Networking Acadamy®Introduction to Cyber-security course on 5th Jan 2024.

- Dr.SireeshaMoturi has got certificate In recognition of the commitment to achieve professional excellence for successfully satisfied the requirements for Getting Started with Enterprise-grade AI from IBM on 03 JAN 2024.

- Dr.SireeshaMoturi has got certificate In recognition of the commitment to achieve professional excellence for successfully satisfied the requirements for Getting Started with Threat Intelligence and Hunting from IBM on 28 DEC 2024.

- Saranya has got certification of participation for successful completion of 30 hours Live Training Program on NLP, ChatGPT and Prompt Engineering Held from 18th Dec 2023 to 9th Jan 2024.

- Dr.SireeshaMoturi has got certification of participation for successful completion of 30 hours Live Training Program on NLP, ChatGPT and Prompt Engineering Held from 18th Dec 2023 to 9th Jan 2024.

- Dr.SireeshaMoturi from Narasaraopeta Engineering College, India has got Certificate of Excellence in Reviewing on 07-02-2024 from Asian Journal of Education and Social Studies for recognition of an outstanding contribution to the quality of the journal.

- Dr.SireeshaMoturi has got certificate In recognition of the commitment to achieve professional excellence for successfully satisfied the requirements for IBM Data Scienece Practitioner Certificate: Instuctor from IBM on 20 FEB 2024.

- Certificate proudly presented to Dr.Sireesha for Unleasing Innovation in Curriculum Design with Outcome-Based Education by InPods Ed-tech Organizer on Feb 29, 2024.

- Wipro Certified faculty program Certificate Awarded to M.Venkata Rao, V.KarunaKuma, &Ch.Rajani for participating in the training program on Java Full Stack conducted by TalentNext from 19-02-2024 to 08-03-2024. Conducted on 01st & 02nd March, 2024.

- IBM SkillsBuild Virtual Faculty Buildathon AI/ML with Cloud Dr. M.Sireesha Moturi has successfully completed to the training conducted from Nov 21, 2023 to Dec 02, 2023.

- Certificate of Appreciation BEST FACULTY COORDINATOR proudly presented to Dr S N Tirumala Rao and Dr.S.V.N.Sreenivasu for the International Student Workshop - INSW 2024 on "Data Science using Python" Organized by Brain O vision Solutions Pvt. Ltd in Association with AICTE. During the period of Feb 19th to 23rd, 2024.

Dr S V N SREENIVASU, professor acted as Judge in Technical Fest at JNTU College of Engineering, Narasaraopet on 04-04-2024.

Mr.K.V.Narasimha Reddy, Asst.Professor published a patent on "AI BASED PESTICIDE SPRAYING AND FRUIT HARVESTING MACHINE".

Yamani Chandana has got NPTEL Online Certification from IIT Kharagpur for successfully completing the course Data Mining during Jan-Mar 2024 (8 week course).

Dr. S V N SREENIVASU of NARASARAOPETA ENGINEERING COLLEGE has got Certificate of Participation for participated in the DST Sponsored Four Weeks Online TEDP on "Technology Based Entrepreneurship Development Programme" from 4th March- 28th March 2024 Organized by Academy of Maritime Education and Training Deemed to be University, Chennai.

Dr. S V N SREENIVASU of NARASARAOPETA ENGINEERING COLLEGE has got Certificate of Participation for participated in the DST Sponsored Four Weeks Online TEDP on "Technology Based Entrepreneurship Development Programme" from 4th March- 28th March 2024 Organized by Academy of Maritime Education and Training Deemed to be University, Chennai.

Dodda Venkatareddy, NARASARAOPETA ENGINEERING COLLEGE has got Certificate of Participation for successfully participated in the "4th One-Week International Workshop on Technical Writing using LaTeX (online)". The Workshop is organized by the School of Electronics Engineering (SENSE) and Technically Co-Sponsor

by VIT-AP IEEE SB and MTT SBC, at VIT-AP University, Amaravati, India during 30th Mar- 5th Apr, 2024.

Yamani Chandana has got edX verified Certificate on May 1, 2024 for successfully completed and received a passing grade in cppl.1: C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

Dr Rama Krishna Eluri has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in cppl.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

Dr.SireeshaMoturi from Narasaraopeta Engineering College, India has got Certificate of Excellence in Reviewing on 07-02-2024 from Asian Journal of Education and Social Studies for recognition of an outstanding contribution to the quality of the journal.

KARUNA KUMAR VALICHARLA has got edX verified Certificate on April 26, 2024 for successfully completed and received a passing grade in cppl.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

NukalaVijaya Kumar has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in cppl.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

Shaik Rafi has got edX verified Certificate on April 24, 2024 for successfully completed and received a passing grade in cppl.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

KandiVenkataNarasimhareddy has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in cppl.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

GaddamSaranya has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in cppl.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

M Sathyam Reddy has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in cppl.1: C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

M.Suneetha has got edX verified Certificate on April 26, 2024 for successfully completed and received a passing grade in cppl.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

MarellaVenkatarao has got edX verified Certificate on May 1, 2024 for successfully completed and received a passing grade in cppl.1: C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

Dr K.LAKSHMINADH has got edX verified Certificate on April 26, 2024 for successfully completed and received a passing grade in DB0111EN: Introduction to SQL a course of study offered by IBM, an online learning initiative of IBM.

Dr.SivaNageswara Rao S has got edX verified Certificate on April 26, 2024 for successfully completed and received a passing grade in DB0111EN: Introduction to SQL a course of study offered by IBM, an online learning initiative of IBM.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Innovation is our tradition

- Dr.KUNDA SURESH BABU has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in ML0101EN: Machine Learning with Python: A Practical Introduction a course of study offered by IBM, an online learning initiative of IBM.

- M SATHYAM REDDY has got edX verified Certificate on May 1, 2024 for successfully completed and received a passing grade in ML0101EN: Machine Learning with Python: A Practical Introduction a course of study offered by IBM, an online learning initiative of IBM.

- NukalaVijaya Kumar has got edX verified Certificate on April 30, 2024 for successfully completed and received a passing grade in IT.1.3x: Introduction to Java Programming: Fundamental Data Structures and Algorithms a course of study offered by UC3Mx, an online learning initiative of Universidad Carlos III de Madrid.

- Rajani has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in IT.1.3x: Introduction to Java Programming: Fundamental Data Structures and Algorithms a course of study offered by UC3Mx, an online learning initiative of Universidad Carlos III de Madrid.

- M SATHYAM REDDY has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in CS0111EN: Hardware and Operating Systems a course of study offered by IBM, an online learning initiative of IBM.

- SireeshaMoturi has got edX verified Certificate on April 30, 2024 for successfully completed and received a passing grade in CSX0001: Computer Science 101 a course of study offered by StanfordOnline, an online learning initiative of Stanford University.

- V N SREENIVASU, NARASARAOPETA ENGINEERING COLLEGE has got Certificate of Coordinator from IETE (IINSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING) for successfully organized the course on 21 Days Masterclass on Amazon Web Service (MLOps) from 26.03.2024 to 15.04.2024.

- SK KHAJA MOHIDDIN BASHA has got edX verified Certificate on April 24, 2024 for successfully completed and received a passing grade in DB0111EN: Introduction to SQL a course of study offered by IBM, an online learning initiative of IBM.

- DR S V N SRINIVASU has got edX verified Certificate on May 7, 2024 for successfully completed and received a passing grade in CC0101EN: Introduction to Cloud Computing a course of study offered by IBM, an online learning initiative of IBM.

- T G RamnadhBabu has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in cpp1.1:C++ Programming: Basic Skills a course of study offered by Codio, an online learning initiative of Codio.

- T G RamnadhBabu has got edX verified Certificate on May 1, 2024 for successfully completed and received a passing grade in Progra001: Java Programming Fundamentals a course of study offered by GalileoX, an online learning initiative of Universidad Galileo.

- M SATHYAM REDDY has got NPTEL Online Certification for successfully completing the course Introduction to Automata, Languages and Computation with a consolidated score of 71% from Jan-Apr 2024 (12 week course).

- Dr. KUNDA SURESH BABU has got edX verified Certificate on May 2, 2024 for successfully completed and received a passing grade in DS0720EN: Data Science and Machine Learning Capstone Project a course of study offered by IBM, an online learning initiative of IBM

- M.Mounika Naga Bhavani of Narasaraopeta Engineering College has got participation Certificate for attended Online One Week Short Term Training Programme on "Research Proposal Writing and AI Tools in Education and Research" sponsored by Indian Society for Technical Education (ISTE), New Delhi during 06/05/2024 to 11/05/2024 Organized by Department of Artificial Intelligence and Data Science at P. R. PotePatil College of Engineering & Management, Amaravati

- MEDURI MOUNIKA NAGA BHAVANI (Roll No: NPTEL24CS57S563401076) has got NPTEL-AICTE Faculty Development Programme Certificate from IIT Madras for successfully completing the 12 Weeks course (Jan-Apr 2024) The Joy of Computing using Python with consolidated score of 58% .

- Mr.NukalaVijaya Kumar from Narasaraopeta Engineering College has got Certificate of Participation for participated in five day online FDP on "Confluence of Deep Learning, Generative AI and Data Science" organized by Department of Applied Computational Science and Engineering [ACSE], GL Bajaj Institute of Technology and Management, in collaboration with Centre for Advanced Studies [CAS], Dr APJ Abdul Kalam Technical University, Lucknow, from 6th May-10th May 2024

- Tirumala Rao S.N, Professor, Narasaraopeta Engineering College, Narasaraopet, India and G.Saranya, Assistant Professor, Narasaraopeta Engineering College, Narasaraopet, India has got Certificates for presenting the research paper entitled "A Significant Regional Examination on CNN-based Network for Brain Tumor Detection and Identification" in the 2024 First International Conference on Advances in Modern Age Technologies for Health and Engineering Science (AMATHE 2024) held at PES Institute of Technology and Management, Shivamogga, Karnataka, India during 16 – 17, May 2024. The conference is technically co-sponsored by IEEE Bangalore Section.
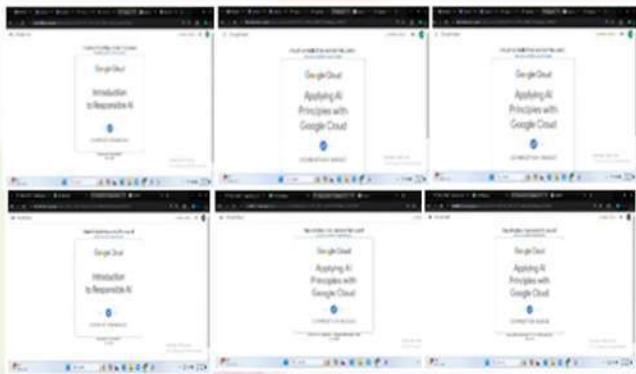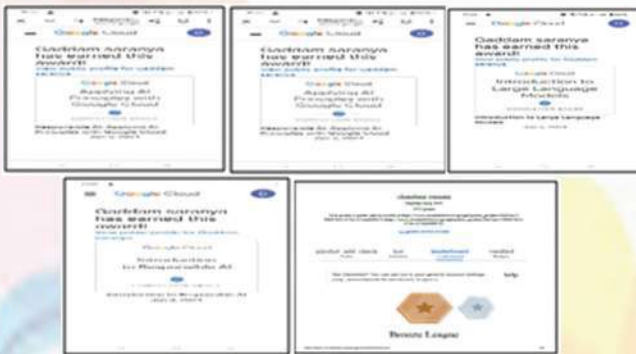
● M. Mounika, k.v.Narasimhareddy ,K.Rajani ,G.Saranya from Narasarao pet Engineering college has earned the below furnished awards, Applying AI Princeples with Google cloud, Introduction to Responsible AI, Introduction to large language models, Introduction to Generative AI.

● Chandana Yamani ,Sk Rafi and Dr. Soma Sekhar has Google AI Certification

● Dr K.SureshBabu of Narasarasaraopeta engineering college has completed one week FDP on "OBE&NEP2020",during 10th to 14thjune 2024,jointly organized by internal quality assurance Cell-IQAC ,PBR VITS ,Kavali and VIT –AP University ,Amaravati.

Dr.S V N SREENIVASU of Narasaraopeta engineering college has certificate received from ICCICCT, Certificate in machine learning based comprehensive of hybrid solar energy micro grid control mechanisms and assessment for sustainable rural electrification

Dr.S V N SREENIVASU of Narasarao pet engineering college has successful completion of one week faculty Development program(FDP) on "OBP&NEP 2020",during 10th to 14th june 2024,jointly organized by INTENAL QUALITY ASSURANCE cell-IQAC,PBR VITS,kavaliand VIT-AP UNIVERSITY,AMARAVATHI.

● Dr.S V N SREENIVASU of Narasarao pet engineering college certificate received from ICCICCT , Certificate in machine learning based comprehensive of hybrid solar energy micro grid control mechanisms and assessment for sustainable rural electrification

N. Vijaya Kumar Participated in 5 days International Faculty Development programme on DIGITAL MARKETINGorganized MIT Arts commerce college (Autonomous)-nizamabad ,telangana

● Dr. K. SureshBabu of Narasaraopet engineering college (Autonomous) has completed and get certificate in "OBP&NEP 2020"during 10th&14thjune 2024, jointly organised by IQAC AND VIT.

● Dr. Soma Sekhar K has got course completion certificates in Introduction to Data Science course completion certificate, computer vision

Introduction to Robotic process Automation, Introduction to deep learning, Introduction to Natural language processing, Introduction Artificial intelligence from Infosys Spring Board.

- M.Suneetha has got course completion certificates in Introduction to computer vision 101, Introduction to Robotic process Automation, Introduction to deep learning, Introduction to Natural language processing, Introduction Artificial intelligence from Infosys Spring Board.

- Shaik Rafi has got course completion certificates in computer vision 101, Introduction to Robotic process

- Automation, Introduction to deep learning, Introduction to Natural language processing, Introduction Artificial intelligence

DEPARTMENTAL ACTIVITIES:

Workshops/ Seminars / Industrial visits/ Webinars:

- MarellaVenkatrao gave A One Week Workshop on Innovative Design to Write Queries using SQL, Organized by IQAC & Department of Computer Science and Engineering in Association with CSI, ACM & IIC from 03rd to 09th January, 2024.

- Free Eye Check-Up Program Conducted in Narasaraopeta Engineering College under National Service Scheme NSS Unit Code: 90214702, In Co-ordination with Dr.M.V.Reddy Eye Hospital, Narasaraopet on 04th January, 2024.

- Python online assessment test conducted for III CSE students from 09-01-2024 to 10-01-2024.

- National Youth Day or RashtriyaYuvaDiwas is celebrated annually on January 12 tocommemorate the birth anniversary of Swami Vivekananda.

- AI Workshop with Mr.Trivikram conducted for III CSE students on 19-01-2023.

Introduction to Robotic process Automation, Introduction to deep learning, Introduction to Natural language processing, Introduction Artificial intelligence from Infosys Spring Board.

14th NATIONAL VOTER'S DAY conducted on 25-01-2024, Organized by IQAC & NSS.

75th Republic Day Celebrations on 26-01-2024.

- By Microsoft Teams, Online Technical Session on Cyber Security conducted under VODAFONE INTELLIGENCE SYSTEM (VOIS) for II CSE A& D sections on 25-01-2024 Time: 2:00 PM to 4:00 PM.

- A one week workshop on INNOVATIVE MOBILE APP DEVELOPMENT for II CSE – D section students in Association with APSSDC held on 05th to 10th February, 2024.

- A one week workshop on AMAZON WEB SERVICES (AWS) for III CSE B & C section students in Association with APSSDC held on 05th to 10th February, 2024.

- JUBILATION-2K24 Poster A NATIONAL LEVEL STUDENT TECH FEST BYTE BLAST released by Our honourable Principal sir, HODs, Faculty Members and students on 10-02-2024 In Association with COMPUTER SOCIETY OF INDIA (CSI), INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) and ASSOCIATION FOR COMPUTING MACHINERY (ACM).

- A Three Day workshop on CULTURE OF INNOVATIVE WORKSHOP ON AWS for III CSE A & D section students from 14th to 16th February, 2024, Organized by IQAC & Department of Computer Science and Engineering In Association with CSI, ACM, ISTE & IIC.

- Alumni student ThammisettyGopi, Roll number - 19471A05I8, Role – Jr.React Native Developer, Company – Colourmoon Technologies Pvt.Ltd, Location – Hyderabad and Contact No - 7386870714 interacted with III/II CSE A& D Section students for profession guidelines.

- Alumni student G. Mallikharjuna Reddy, Roll number – 18471A05D5, Designation – Programmer Analysit, Company – Cognizant DLF, Location – Hyderabad and Contact No - 7032112820 interacted with II/II CSE B & C Section students for profession guidelines on 23-02-2024.

- A One Week workshop on Android APP Development using KOTLIN for III CSE B & C section students from 19th to 24th February, 2024, Organized by IQAC & Department of Computer Science and Engineering In Association with CSI, ACM, ISTE & IIC.

Institution's Innovation Council (IIC) conducted a National Level Ideathon-2024 on 27-02-2024 (Tuesday).

JUBILATiON-2K24 A NATIONAL LEVEL STUDENT SPORTS & TECH FEST conducted on 01st & 02nd March, 2024.

20 Batch IV CSE - Farewell Day Celebrated on 07-03-2024.

- Appreciation certificate is presented to Narasaraopeta Engineering College, International Student Workshop - INSW 2024 on "Data Science using Python" Organized from Feb 19th to 23rd, 2024. Host College Appreciation Certificate by Brain O vision Solutions and AICTE.
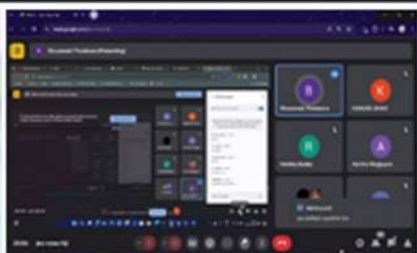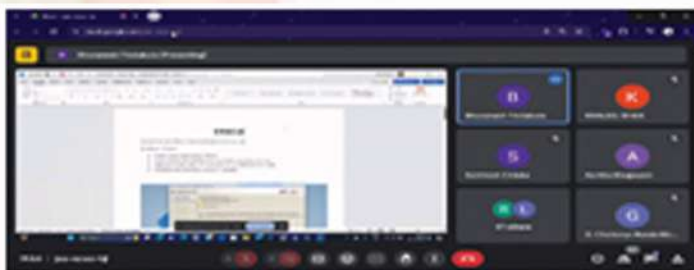
- Special classes (ONLINE) to II CSE-B & C section students on "DATA BASE CONNECTIONS WITH ORACLE AND POSTMAN FOR ANGULAR" on 15-03-2024 and 16-03-2024 by T. Bhuvanesh - III CSE – C.

Showing the installation process using screenshots

Doubt clarification on installation

Doubt clarification session by Trainers on Android workshop on 21-03-2024.

- Institution's Innovation Council (IIC) of Narasaraopeta Engineering College (Autonomous) is organizing online workshop on "INTELLECTUAL PROPERTY RIGHTS & PATENTS and DESIGN FILLINGS" in Association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Government of India, Nagpur under National Intellectual Property Awareness Mission (NIPAM).

- Fresher's day 2K24 Celebrated on 23-03-2024.

- One of our Alumni Student name as SURYA TEJA ACHYUTA , 16471A0560 (2016) working as Software Developer Engineer in Amazon, Sanfrancisco, USA interacted with II CSE Students about career opportunities. E-mail: achyutasuryateja@gmail.comPh.No:+1-316-841-1797, +91-9790586636.

- International Conference conducted on Artificial Intelligence and Its Emerging Areas-2K24 [NEC-ICAIEA-2K24], Organized by Department of Computer Science and Engineering, CSE(AI),IT,CSE(AIML),CSE(DS),CSE(CS) and MCA in Association with CSI on 12th and 13th April 2024 at NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), Narasaraopet, A.P., India.

- IBM Data Science practitioner course training program conducted at tech hub for III B.Tech CSE - B and C sections from 19-04-2024 to 20-04-2024.

- IBM Data Science practitioner course training program conducted at tech hub for III B.Tech CSE - A and D sections from 24-04-2024 to 25-04-2024.

- A Five Day Faculty Development Program on PRINCIPLES OF MACHINE LEARNING by Dr. Venkateswara Rao Tirumalasetty, Former Academic Adviser, APSSDC Organized by CSE & Allied Branches in Association with IQAC.

- Alumni student T Uday Kumar, Roll number – 17471A05A4, Role – Software Developer, Company – Cisco Systems, Location – Bangalore and Contact No - 9030833398 interacted with I/II CSE C & D Section students for profession guidelines.

- Alumni student ShaikMadarbi, Roll No – 14471A0510, Associate Analyst, Global Logic Hitachi Group Company, Hyderabad, Phone No – 9550396213 interacted with II CSE – D students for career guidelines on 13-04-2024.

- A One Week workshop on HACKATHON EXPRESS (Fast Track To Coding Excellence) conducted from 15th to 22nd June,2024

Training Programs and Drives:

UST GLOBAL drive test conducted for IV B.Tech CSE, IT, AI & II MCA students on 19th January 2024.

- 25 students from II CSE selected for Microsoft AI training conducted from 23-01-2024 to 31-01-2024.

- TCS specific training conducted for IV CSE students from 23-01-2024 to 31-01-2024.

- TCS specific training conducted for IV CSE students from 24-01-2024 to 07-02-2024.

- II B.Tech II Sem - ByteXL CRT classes started from 11-03-2024 to 28-03-2024.

- "DHATSOL" Placement Drive Written Test on 30-03-2024.

CRT classes conducted for III CSE students from 6th to 18th May, 2024.

DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

Innovation is our tradition

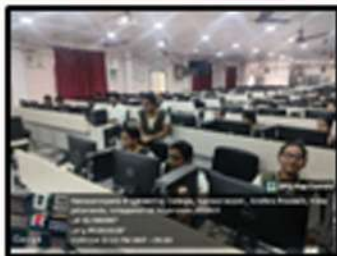- CRT classes conducted for IV CSE students from 13th June, 2024.

STUDENT CERTIFICATIONS/ PARTICIPATIONS IN WORKSHOPS / CONFERENCES/NSS PROGRAMS:

CO-CURRICULAR ACTIVITIES:

- IV CSE Students ChandaluriAnjaniThanmayee, Roll No:-20471A0510, Ambati Haritha, Roll No:-20471A0504, Thanugundla Vincent Reddy, Roll No:-20471A0563 has given a training to III CSE students on React JS on 02-01-2024.

- Harshitha Sri from I CSE participated in the event Essay Writing Competition and won the I prize conducted on the occasion of National Education Day on 10-11-2023.

- G.Sri Lakshmi Swathi and N.Bhavani from I CSE has participated in the event Postel Presentation Competition and won the I prize conducted on the occasion of National Mathematics Day on 22-12-2023.

- M.Harshavardhan, M.Sriharsha, Y. Amrutha, K.Sowmya and Sk. Sumiya from I CSE has participated in the event Postel Presentation Competition and won the Consolation prize conducted on the occasion of National Mathematics Day on 22-12-2023..

- Y.Amrutha and K.Sowmya from I CSE has participated in the event Poster Presentation Competition and won the II prize conducted on the occasion of National Energy Conservation Day on 14-12-2023.

- Sd.AhmadRasool and Ravi Teja from I CSE has participated in the event Poster Presentation Competition and won the Consolation prize conducted on the occasion of National Energy Conservation Day on 14-12-2023.

- K.Supriya and P.Nikhitha from III CSE has participated in the event Poster Presentation Competition and won the Consolation prize conducted on the occasion of National Energy Conservation Day on 14-12-2023.

- S.Bhavani and Ch.Harini from III CSE has participated in the event 3D Art Competition and won the III prize conducted on event of SankranthiSambaralu on 08-01-2024.

- T.Bhuvanesh and G.Chaitanya from III CSE has participated in the event 3D Art Competition and won the Consolation prize conducted on event of SankranthiSambaralu on 08-01-2024.

- Ch.Mohit from I CSE, J.LakshmiNarayana, K.Mahesh and Sk. Rizwana from III CSE has participated in the event Traditional Dress Competition and won the Consolation prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- Y.Sowmya from III CSE and S.S. V.Karthik from I CSE has participated in the event Traditional Dress Competition and won the I prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- G.Kavya from II CSE and Sk. ZaheedHussain from III CSE has participated in the event Traditional Dress Competition and won the II prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- Sk.Kharimunisha from I CSE has participated in the event Traditional Dress Competition and won the III prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- M.Thirumala Devi from III CSE has participated in the event Painting Competition and won the III prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- K.JahnaviSaiPriya from III CSE and K.Srinija from IV CSE has participated in the event Painting Competition and won the Consolation prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- G.Pavani and P.Priyanka from III CSE has participated in the event Rangoli Competition and won the II prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- Ch.Triveni from II CSE, D. Nalini and P. Prasanna Lakshmi from I CSE has participated in the event Rangoli Competition and won the Consolation prize conducted on the occasion of SankranthiSambaralu on 08-01-2024.

- S. Akshaya Kumar, Roll No:-20471A05M7 of IV CSE student selected from palnadu district has got Certificate of Participation for participated in Declamation competition, conducted in State Level Youth Festival held from 7th to 9th Jan, 2024 at K L University, Vaddeswaram, organized by the Department of Youth Services.
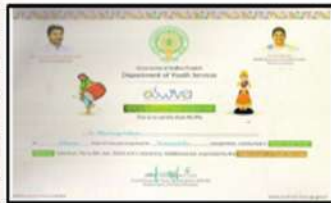
- S.AkshayaKKumar has got GRADE A certificate for completed Introduction to Sport Climbing Level – 1 Course at the National Youth Festival held at Nashik on 13 January 2024.

- SanapathiAkshaya Kumar represented Andhra Pradesh has got Certificate of Participation in Nehru Yuva Kendra Sangathan (NYKS) in General Contingnment at 27th National Youth Festival 2024 held in Nashik, Maharashtra on 12th January to 16th January 2024.

- L V Pavan Kumar (Roll No:- 21471A05D7), B AnjiBabu (Roll No:- 21471A0574), B Suhas (Roll No:- 21471A0578) and N Srikanth (Roll No:- 21471A05A8) from III CSE students has got Certificate of Appreciation from Palnadu Blood Bank for their benevolent questure in donated blood on 02 February 2024 which helps to a precious human life

- Syed Rizwana and ShaikHafija of the Department of CSE from Narasaraopeta Engineering College has got certificate of appreciation for participated in CIS'SOIREE 2K24 organized by CISA of RVR & JC College of Engineering, Autonomous, a National Level Technical Fest held on February 16, 2024. They participated in the event "INVINCIBLE OF SOIREE" and secured First prize.

- ThotakuraBhuvanesh of registered number 21471A05K4, MunagalaKavyanjali of registered number 21471A05A5, TejaCharan of registered number 21471A0585 and PasupuletiMuraliPriya of registered number 21471A05B1 has attended CIS'soiree organized by CISA of RVR & JC College of Engineering on 16th February 2024.

- A. Lakshmi Niharika, K. JahnaviSaiPriya and V. Teja Sri of the Department of CSE from Narasaraopeta Engineering College has got certificate of participation for qualified in prelims round of CIS'SOIREE 2K24 organized by CISA of RVR & JC College of Engineering, Autonomous, a National Level Technical fest held on February 16, 2024.

- PonnagantiSai Ganesh bearing roll no 21471A05I7 and ThotakuraBhuvanesh bearing roll no 21471A05K4 of Branch & Year III B.Tech-CSE has participated and won First prize in the event Tech Trio Challenge organized by NEC ACM Student Chapter held on 14-02-2024.

- DullaTejaCharan bearing roll no 21471A0585 of Branch & Year III B.Tech-CSE has participated and won Second prize in the event Tech Trio Challenge organized by NEC ACM Student Chapter held on 14-02-2024.

- GurazalaChaitanya bearing roll no 21471A05F6 and TadalaManideep bearing roll no 21471A05K1 of Branch & Year III B.Tech-CSE has participated and won Third prize in the event Tech Trio Challenge organized by NEC ACM Student Chapter held on 14-02-2024.

- Two Cadets got NCC 'C' Certificates from CSE Dept. These Students are eligible for SSB (Service Selection Board) Special Entry Scheme 5 Steps Interview without Written Test (Prelims and Mains). They have Received Eligible Documents from Chirala Army Unit.

  CMS – K Harshavardhan (III CSE – C) 21471A05G1

  SGT – T Akhil (III CSE – C) 21471A05K3

- AMMISETTY CHAMUNDESWARI, Roll No – 22471A05L1, D. SATISH BABU, Roll No – 22471A05M0, GUJJARLAPUDI

- KEETTHANALAZATUS, Roll No – 22471A05M5, J. SURYA TEJA, Roll No – 22471A05M6, SHAIK FAHEEM AHMED, Roll No – 22471A05N9, T. RAJESH, Roll No – 22471A05O5, B. HEMANTH KUMAR, Roll No – 23475A0524 has got Certificate of Participation for participating in the Webwiz event at CYSENTIA 2K24, a National Level Technical Symposium organized by Department of CSE, JNTUK UCEN, held on 4th APRIL 2024.

- GUGGILA KAVYA, Roll No – 22471A05M4, Y. KRUPA CHAITANYA, Roll No – 22471A05O7 has got Certificate of Participation for participating in the Generative A.I workshop at CYSENTIA 2K24, a National Level Technical Symposium organized by Department of CSE, JNTUK UCEN, held on 4th APRIL 2024.

- YagantiMounika Prasanna Lakshmi Roll No - 19471A0560 has got Certificate from Google Cloud for successfully completed all the requirements to be recognized as a Google Cloud Certified Associate Cloud Engineer.

- AMMISETTY CHAMUNDESWARI, Roll No – 22471A05L1, D. SATISH BABU, Roll No – 22471A05M0, GUJJARLAPUDI KEETTHANALAZATUS, Roll No – 22471A05M5, J. SURYA TEJA, Roll No – 22471A05M6, SHAIK FAHEEM AHMED, Roll No – 22471A05N9, T. RAJESH, Roll No – 22471A05O5, B. HEMANTH KUMAR, Roll No – 23475A0524 has got Certificate of Participation for participating in the Webwiz event at CYSENTIA 2K24, a National Level Technical Symposium organized by Department of CSE, JNTUK UCEN, held on 4th APRIL 2024

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Alumni Voice:

Being an alumnus of the college, Narasaraopeta Engineering College, I consider myself fortunate to reflect on all that happened during my time, especially the transformative education I acquired and the invaluable experience that I gained. Evolving constantly, the institution remains ahead in academic excellence as well as innovation.The faculty here is not only knowledgeable but also genuinely committed to the growth of the students and encourages an environment to foster success. Modern campus infrastructure upgrade features state-of-the-art labs, digital libraries, and advanced research areas that encourage innovation and exploration.The hallmark of the college is that it bridges academia and industry. With programs such as collaborative projects, hands-on workshops, internships, and industry-driven programs, I gained both a good theoretical foundation and practical skills to solve real-world challenges.

T. UDAY KUMAR
(17471A05A4)
NETWORKS SOFTWARE ENGINEER
CISCO

Student Voice:

Narasaraopeta Engineering College stands proud as a beacon of academic brilliance, innovation, and forward-thinking in engineering education. As an organization dedicated to shaping the aspirations of aspiring engineers, the college offers a diverse spread of undergraduate and postgraduate degrees in various branches of engineering, catering to a diverse spectrum of student interests and career goals. The college's commitment to holistic development is reflected in its modern infrastructure, which is equipped with state-of-the-art laboratories, advanced e-classrooms, and a conducive learning environment that fosters creativity, critical thinking, and problem-solving skills.I take immense pride in being a part of this prestigious institution, where the emphasis on both theoretical knowledge and practical application allows students to grow not only as engineers but as well-rounded professionals.

Srilatha Amireddy
(21471A0503)